

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address COMMISSI SEE C. A. C. C. C. ADEMARKS
www.dahngren.Dec. 200
www.dahngren.Dec. 200

APPLICATION NO.	FILING ANTE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO.
09-881,823	14c. > 2004	Wenyuan Shi	22851-032	8957
29585 75	90 0 13 2003			
GRAY CARY WARE & FREIDENRICH LLP 153 TOWNSEND SUITE 800			EXAMINER	
			ZEMAN, ROBERT A	
SAN FRANCIS	CO, CA 94107		ART UNIT	2 APER NUMBER
			1645	- C
			DATE MAILED: 02°13, 2003	: 7

Please find below and/or attached an Office communication concerning this application or proceeding.

_		Application No.	Applicant(s)				
Office Action Summary		09/881,823	SHI ET AL.				
		Examiner	Art Unit				
		Robert A. Zeman	1645				
	The MAILING DATE of this communication app	ears on the cover she	et with the correspondence address				
Period fo	ORTENED STATUTORY PERIOD FOR REPL'	VIS SET TO EYDIDE	1 MONTH(S) FROM				
THE I - Evter after - If the - If I/O - Failu - Any r	MAILING DATE OF THIS COMMUNICATION. Assigns of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication of period for reply specified above is less than thirty (30) days, a replet of the provision of	36(a) In no event, however, m y within the statutory minimum will apply and will expire SIX (6) cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communication me ABANDONED (35 U S C. § 133).				
1)[Responsive to communication(s) filed on 15.	<u>lune 2001</u> .					
2a)□	This action is FINAL . 2b)∑ Th	is action is non-final.					
3)	Since this application is in condition for allows closed in accordance with the practice under	ance except for formal Ex parte Quayle, 193	matters, prosecution as to the merits is 5 C.D. 11, 453 O.G. 213.				
	ion of Claims						
	Claim(s) <u>1-24</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
İ	Claim(s) is/are rejected.						
		Claim(s) is/are objected to.					
•	Claim(s) <u>1-24</u> are subject to restriction and/or ion Papers	election requirement.					
	The specification is objected to by the Examine	ır.					
	The drawing(s) filed on is/are: a)□ acce		by the Examiner.				
.0,	Applicant may not request that any objection to th						
11)	The proposed drawing correction filed on		disapproved by the Examiner.				
/	If approved, corrected drawings are required in re						
12) 🔲	The oath or declaration is objected to by the Ex	aminer.					
Priority (under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No.						
* (3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	ireau (PCT Rule 17.2)	(a)).				
	Acknowledgment is made of a claim for domest						
а	 The translation of the foreign language pro- Acknowledgment is made of a claim for domes; 	ovisional application h	as been received.				
Attachmen		no priority under 50 0.	5.5. 33 120 GHG/01 121.				
1) Notice 2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 Noti	rview Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152)				

Art Unit: 1645

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-3 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the light chain of said antibody comprises the amino acid sequence of SEQ ID NO:1, classified in class 436, subclass 547.
- II. Claims 1-2, 4 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the heavy chain of said antibody comprises the amino acid sequence of SEQ ID NO:3, classified in class 436, subclass 547.
- III. Claims 1-2, 5 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the light chain of said antibody comprises the amino acid sequence of SEQ ID NO:5, classified in class 436, subclass 547.
- IV. Claims 1-2, 6 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the heavy chain of said antibody comprises the amino acid sequence of SEQ ID NO:7, classified in class 436, subclass 547.
- V. Claims 1-2, 7 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the light chain of said

Art Unit: 1645

antibody comprises the amino acid sequence of SEQ ID NO:9, classified in class 436, subclass 547.

- VI. Claims 1-2, 8 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the heavy chain of said antibody comprises the amino acid sequence of SEQ ID NO:11, classified in class 436, subclass 547.
- VII. Claims 1-2, 9 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the light chain of said antibody comprises the amino acid sequence of SEQ ID NO:2, classified in class 436, subclass 547.
- VIII. Claims 1-2, 10 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the heavy chain of said antibody comprises the amino acid sequence of SEQ ID NO:4, classified in class 436, subclass 547.
- IX. Claims 1-2, 11 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the light chain of said antibody comprises the amino acid sequence of SEQ ID NO:6, classified in class 436, subclass 547.
- X. Claims 1-2, 12 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the heavy chain of said antibody comprises the amino acid sequence of SEQ ID NO:8, classified in class 436, subclass 547.

Art Unit: 1645

XI. Claims 1-2, 13 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the light chain of said antibody comprises the amino acid sequence of SEQ ID NO:10, classified in class 436, subclass 547.

- XII. Claims 1-2, 14 and 15-17, drawn to methods of treating dental caries comprising administering an antibody wherein the variable region of the heavy chain of said antibody comprises the amino acid sequence of SEQ ID NO:12, classified in class 436, subclass 547.
- XIII. Claim 18, drawn to methods of producing antibodies using transgenic animals, classified in class 800, subclass 6.
- XIV. Claim 19, drawn to methods of producing antibodies comprising immunizing isolated human B-lymphocytes *in vitro*, classified in class 435, subclass 332.
- XV. Claim 20, drawn to drawn to methods of producing antibodies comprising isolating human B lymphocytes from humans with an acute infection of at least one cariogenic organism, classified in class 435, subclass 325.
- XVI. Claims 21-24, drawn to method of producing antibodies utilizing recombinant techniques, classified in class 435, subclass 69.6.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-XVI are separate and distinct from each other as they are each drawn to differing methods with differing goals, utilizing differing steps and reagents and leading to differing results.

Art Unit: 1645

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Zeman whose telephone number is (703) 308-7991. The examiner can normally be reached on Monday- Thursday, 7am -5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith can be reached on (703) 308-3909. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-4242 for After Final communications.

Art Unit: 1645

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

LYNETTE R. F. SMITH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600